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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/522,273	01/25/2005	Yuichiro Shindo	OGOSH25USA	8782	
HOWSON & H	7590 05/18/201 ⁻ OWSON LLP	EXAMINER			
501 OFFICE CI SUITE 210	ENTER DRIVE	JOHNSON, EDWARD M			
	NGTON, PA 19034		ART UNIT	PAPER NUMBER	
			1793		
			NOTIFICATION DATE	DELIVERY MODE	
			05/18/2010	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

docketing@howsonandhowson.com

Office Action Summary		Application No.	No. Applicant(s)				
		10/522,273		SHINDO ET AL.			
		Examiner		Art Unit			
		Edward M. Johns		1793			
Period fo	The MAILING DATE of this communication or Reply	appears on the cover	sheet with the c	orrespondence ac	ddress		
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR RECHEVER IS LONGER, FROM THE MAILING asions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by strength of the control of the co	B DATE OF THIS CO R 1.136(a). In no event, hower riod will apply and will expire satute, cause the application to	OMMUNICATION Ever, may a reply be time SIX (6) MONTHS from to be become ABANDONE	I. ely filed the mailing date of this of (35 U.S.C. § 133).			
Status							
1)🖂	Responsive to communication(s) filed on 11	7 February 2010.					
2a)⊠	This action is FINAL . 2b) T	his action is non-fina	al.				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
5)□ 6)⊠ 7)□	Claim(s) 1.2 and 20-36 is/are pending in the 4a) Of the above claim(s) is/are with Claim(s) is/are allowed. Claim(s) 1.2.20-32.35 and 36 is/are rejected Claim(s) is/are objected to. Claim(s) are subject to restriction and	drawn from considera					
Applicati	on Papers						
9)□	The specification is objected to by the Exam	iner.					
10)	The drawing(s) filed on is/are: a)	accepted or b)□ obj	ected to by the E	xaminer.			
	Applicant may not request that any objection to	the drawing(s) be held	in abeyance. See	37 CFR 1.85(a).			
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority u	ınder 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachmen	t(s) e of References Cited (PTO-892)	4) 🗍	Interview Summary	(PTO-413)			
2) Notic 3) Inforr	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	5)	Paper No(s)/Mail Da Notice of Informal Pa Other:	te			

Art Unit: 1793

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 20-32 and 35-36 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over JP 05-262523 A.

Regarding claims 20-31, JP '523 discloses a high purity copper sulfate produced by a process wherein a high purity is achieved, which would correspond to low impurity content.

Claims 20-32 and 35-36 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over JP 47-40634 B1.

Regarding claims 20-31, JP '634 discloses a high purity copper sulfate produced by a process wherein a high purity is achieved, which would correspond to low impurity content.

In the event any differences can be shown for the product of the product-by-process claims 20-31, as opposed to the product taught by JP '523 or JP '634, such differences would

have been obvious to one of ordinary skill in the art at the time the invention was made as a routine modification of the product in the absence of a showing of unexpected results; see also *In re Thorpe*, 227 USPQ 964 (Fed.Cir. 1985).

Claims 20-32 and 35-36 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Chen US 5,059,403.

Regarding claims 20, 24, and 32, Chen discloses copper sulfate having a purity of greater than 99.8% (column 5, lines 42-45) in and out of solution, which would include a purity of at least 99.99 wt%.

Regarding claims 21-23, 25-31, and 33-34, Chen discloses a purity of greater than 99.8%.

Allowable Subject Matter

Claims 33-34 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: the prior art does not disclose or suggest a content of sodium of 0.3-0.4 wtppm in the electrolytic solution for electroplating copper to form a circuit of wiring of a semiconductor device of the instant claim 33.

Application/Control Number: 10/522,273 Page 4

Art Unit: 1793

Response to Arguments

Applicant's arguments filed 2/17/10 have been fully considered but they are not persuasive.

It is argued throughout that the claim would be allowable because of process limitations. However, the rejections over JP '523 and JP '634 are maintained because Applicant appears to admit that a disclosure of "high purity" may include a purity of at least 99.99% and Applicant makes no showing of fact that the claimed product is different with respect to purity. And, in any case, Chen specifically discloses copper sulfate having a purity of greater than 99.8% (column 5, lines 42-45) in and out of solution, which would include a purity of at least 99.99 wt%.

It is argued that turning to JP \523... copper oxide powder. This is not persuasive because of the reasons above.

It is argued that turning to JP '634... purity of 99.3%. This is not persuasive for the reasons above.

It is argued that further, the intended usage... ceramic, material, pigment. This is not persuasive because Applicant claims no different intended use from the prior art and, in any case, a recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art

Art Unit: 1793

structure is capable of performing the intended use, then it meets the claim. A "high" purity including values very near 100% would not be precluded merely by usage in the manner of the prior art.

It is argued that as discussed on page 11, lines 5-13... semiconductor devices. This is not persuasive because Chen discloses "greater than" 99.8%. Not 99.8% only, as Applicant appears to suggest in arguing that "99.8% is worse."

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Application/Control Number: 10/522,273 Page 6
Art Unit: 1793

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edward M. Johnson whose telephone number is 571-272-1352. The examiner can normally be reached on M-F 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley S. Silverman can be reached on 571-272-1358. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Edward M. Johnson/ Primary Examiner Application/Control Number: 10/522,273 Page 7

Art Unit: 1793

Art Unit 1793

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